

Title (en)

Fire protection element with layered structure, particularly as insert for fireproof doors and semi-product for use in the element

Title (de)

Brandschutzelement mit Schichtstruktur, insbesondere als Einlage für Feuerschutztüren, sowie Halbzeug hierfür

Title (fr)

Élément stratifié de protection contre le feu, en particulier comme pièce intercalaire pour portes coupe-feu ainsi que le demi-produit utilisé à cet effet

Publication

**EP 0741003 B1 20020724 (DE)**

Application

**EP 96106164 A 19960419**

Priority

DE 29507498 U 19950505

Abstract (en)

[origin: EP0741003A1] The middle layer (4) consists of an inorganic material, which under temp. influence separates water and remains shape-stable, and is arranged as prefabricated semi-product (5) between the outer layers (2,3) of bound mineral wool. The semi-product is plate-shaped and is strengthened at least on one large surface with an open-pored reinforcement (6,7). The reinforcement is made of glass fleece or glass weave and can be provided on both large surfaces. The semi-product consists of water-sepg. hydroxide, such as aluminium hydroxide and a water-glass, silicon hydrosol or magnesium binder. The hydroxide comprises 50 to 90 wt.% and the binder 10 to 50 wt.%. It has a thickness pref. of 4 to 5 mm.

IPC 1-7

**B32B 19/00**; E06B 5/16

IPC 8 full level

**B32B 19/00** (2006.01); **B29C 70/00** (2006.01); **B32B 5/26** (2006.01); **C09K 21/02** (2006.01); **E06B 5/16** (2006.01)

CPC (source: EP US)

**B01B 1/00** (2013.01 - US); **B29C 70/00** (2013.01 - EP US); **B32B 5/26** (2013.01 - EP US); **B32B 19/04** (2013.01 - US); **C09K 21/02** (2013.01 - EP); **E06B 5/16** (2013.01 - EP); **B29K 2309/08** (2013.01 - EP); **B32B 2262/101** (2013.01 - US); **B32B 2305/08** (2013.01 - US); **B32B 2307/3065** (2013.01 - US); **B32B 2307/734** (2013.01 - US); **B32B 2419/00** (2013.01 - US)

Cited by

EP1296013A1; ES2186523A1; NL2016698A; EP1097807A3; EP1522531A1; WO03023175A1; US7585794B2; US7740931B2; US7803729B2; US8026190B2; WO2017194723A1; US11174578B2; US11590747B2; US11820116B2; US11865826B2; EP1680372B1

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